

## EXECUTIVE SUMMARY

Prepared June 14, 2000

Mine Name: Dove Creek Quarry  
Operator: Utah Building Stone Supply  
842 West 400 North  
West Bountiful, Utah 84087  
Telephone: (801) 295-0601  
Contact Person: William Bown  
Life of Mine: 20 + years

I.D. No.: M/003/016  
County: Box Elder  
New/Existing: Existing small mine expanding  
to large mine status  
Mineral Ownership: Forest Service /Private  
Surface Ownership: Forest Service/Private  
Lease No.(s): N/A  
Permit Term: Life of Mine

Legal Description: Northwest 1/4 of Section 13, North 1/2 and North 1/2 of the South 1/2 of Section 14, Township 13 North, Range 16 West, SLBM, Box Elder County, Utah

Mineral(s) to be Mined: Quartzite flagstone

Acres to be Disturbed: 19.7

Present Land Use: Grazing, Wildlife habitat

Postmining Land Use: Grazing, Wildlife habitat

Variances from Reclamation Standards (Rule R647) Granted: R647-4-107.5 Topsoil Salvage on 6.87 acres of existing disturbance (Main quarry and West Ridge quarry) and 1.9 acres of access road to these quarries. R647-4-111.12, Topsoil Redistribution on these same areas.

### Soils and Geology

Soil Description: Soils in the project area belong to the Nielsen-Bickmore families - Rock outcrop association. These soils are classified as a gravelly loam, with topsoil depth ranging from 0 inches (rock outcrop) to 7 inches. Fractured bedrock is generally within 14 to 37 inches of the surface.

pH: ranges from 6.6 to 7.8

Special Handling Problems: None.

Geology Description: Quartzite of the Clark's Basin Formation (Cambrian age).

### Hydrology

Ground Water Description: There are several springs below the quarry operations; however, impacts to these springs from this operation are not expected. No ground water has been encountered within the quarry pits.



**Surface Water Description:** A small seep is encountered along the access road. A crossing has been made using french drains and culverts. A small spring-fed stream is also located within about 100 feet of the lowest quarry. Since the quarry will progress away from this stream, impacts to this stream are not anticipated.

**Water Monitoring Plan:** None required.

### Ecology

**Vegetation Type(s); Dominant Species:** Mountain brush vegetation type dominated by low sagebrush, serviceberry, bluebunch wheatgrass and basin wildrye.

**Percent Surrounding Vegetative Cover:** 50% on ridges and slopes, 80% in draws and low slopes.

**Wildlife Concerns:** No threatened or endangered species or critical wildlife habitat.

**Surface Facilities:** No facilities on site. A proposed campsite for employees to the south of the quarry area on private ground is proposed, but will not be used until approved by Box Elder County.

### Mining and Reclamation Plan Summary:

#### **During Operations:**

Stone is extracted using a track excavator with occasional drilling and blasting to loosen the material. Blocks are loaded on trucks and shipped to the Enterprise Millsite near Park Valley, Utah for processing and packaging. Some stone is split and stacked on pallets at the site before being shipped. New quarry areas which have available soil material will be salvaged and stockpiled for reclamation.

#### **After Operations:**

Waste rock materials will be used to backfill the pits to eliminate the highwalls and, to the extent possible, return the land to the original topography. Available topsoil will be respread to a depth of 10 inches on new quarry areas. Composted manure will be used to amend waste fines on current quarry areas to make them suitable to support vegetation. Roads that will be reclaimed will be ripped to alleviate compaction. All regraded areas will be seeded with an approved seed mix designed to enhance wildlife habitat and grazing. All equipment and debris will be hauled from the site. There are no permanent structures associated with this operation.

### Surety

**Amount:** \$27,500 (2004 dollars)

**Form:** Irrevocable Letter of Credit (Barnes Bank)

**Renewable Term:** 5 years